

# Watertight Fiberglass Manholes

## Experience

LFM has been building quality fiberglass reinforced manholes, manhole liners, wetwells and wetwell liners since 1982. We utilize the latest in chop and filament winding equipment, therefore providing our customers with the highest quality fiberglass products on the market today.

## Quality Built Right In

LFM incorporates a comprehensive in-plant testing and quality control program. This insures complete and consistent workmanship in all of our fiberglass products. Each manhole that we build is inspected and tested before it is released for shipping. Our testing procedures include wall thickness reports, raw material analysis, and continuous chemical analysis reports. Individual testing reports are recorded and maintained at our office and are available upon request.

### ■ Economical

LFM's fiberglass manholes are light-weight, greatly reducing delivery and installation costs. Due to the anticorrosive nature of LFM's fiberglass manholes, repair and replacement costs due to corrosion are reduced as well.

### ■ Environmental

We build fiberglass manholes that are corrosion resistant to sewer and waste water gases. This reduces the possibility of untreated waste water leaking into the environment. With our quality fiberglass manholes, the risk of environmental contamination is minimized.

### ■ Professional Delivery

LFM has its own fleet of delivery trucks specifically equipped to transport fiberglass manholes. This helps to lower delivery costs considerably. We also employ a professional delivery staff whose primary goal is to provide safe and courteous on-time delivery of our products to our valued customers.



**LFM**  
Fiberglass Structures

## ■ Strong and Lasting Construction

Our fiberglass open-bottom manholes are engineered for specific service conditions and built to provide a long and trouble-free service life. Our manholes are built to meet or exceed the strict requirements of ASTM 3753 (latest edition) and provide the highest structural integrity, durability, and corrosive resistance available. In addition to complying with all ASTM standards, our fiberglass manholes carry an H20 load rating. We maintain individual inspection reports for each manhole, recording such information as resin system used, actual material usage, fittings, accessories, and delivery destination. The inspection reports are filed for future reference and copies are available upon request. Our excellent inspection program assures that each of our customers receives the highest quality fiberglass products available.

## ■ Quality Assurance

At LFM, we stand behind the products we build. We offer a one-year warranty for workmanship and a lifetime warranty against rust and corrosion on our fiberglass manholes. Speak to your LFM sales representative for complete details.

## ■ Available Diameters

LFM builds fiberglass manholes to your specified dimensions with the following diameters available from 36 inches through 14 feet. Depths are available by the half foot from 2' through 40'. We manufacture several different wall thicknesses for different load, depth and diameter specifications. Contact your LFM sales representative to find which dimensions best suit your needs.

## ■ Connections

Fiberglass manholes by LFM can be built with pipe connectors and adaptors already in place. We offer a wide range of pipe stubouts on our manholes from 4" diameter all the way to 48" diameter for larger applications. We also offer Kor-N-Seal™ boots, as well as connectors from other manufacturers, from 4" through 24" diameters. LFM's watertight manholes include a solid FRP anti-flotation bottom and a fully enclosed fiberglass bench and invert area.

## ■ Installation Instructions

1. Prepare excavation in a normal manner. Be sure excavation has been properly shored for safety. The fiberglass manhole should be placed on six inches of crushed stone or stabilized sand compacted to 95% Standard Proctor Density. In areas where a water zof wet concrete and pour the required amount of concrete on top of the anti-flotation flange to prevent floating.
2. Normal installations require six inches of brick or grade rings be installed on top of the fiberglass manhole. In traffic areas you should use a minimum of twelve and not more than eighteen inches of brick or grade rings. Grade rings or brick transfer the load to the outside walls of the manhole. Install standard ring and cover.
3. Backfill with screened native material, free from large stones or debris, a minimum of one foot from the fiberglass manhole wall using a maximum of one-foot lifts. Backfill should be compacted so as to prevent any voids along the wall of the manhole. Always refer to project engineer requirements.